





PAGER Version 5

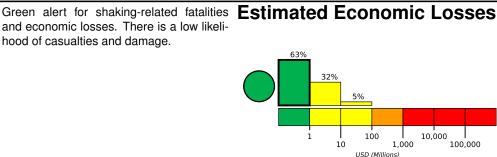
Created: 1 week, 6 days after earthquake

M 6.9, eastern New Guinea region, Papua New Guinea

Origin Time: 2023-10-07 08:40:11 UTC (Sat 18:40:11 local) Location: 5.4773° S 146.1215° E Depth: 53.9 km

Estimated Fatalities 10,000 1,000

and economic losses. There is a low likelihood of casualties and damage.



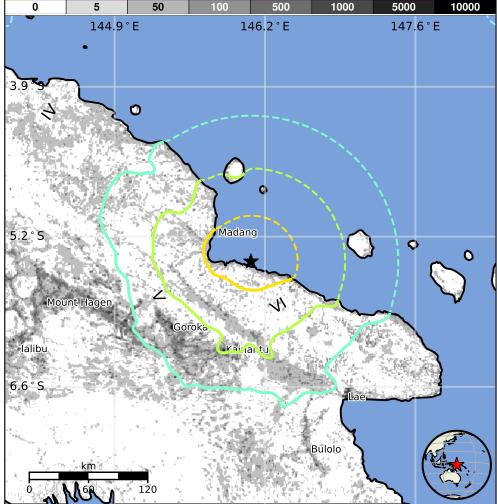
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	_*	2,032k	867k	288k	139k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2005-06-04	123	6.1	VII(27k)	1
1993-08-20	372	6.1	VIII(13k)	0
1993-10-16	47	6.3	VII(75k)	3

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Madang	27k
VI	Kainantu	9k
٧	Goroka	19k
٧	Kundiawa	9k
IV	Minj	<1k
IV	Lae	76k
IV	Bulolo	16k
IV	Mount Hagen	34k
IV	lalibu	7k
IV	Wau	15k
IV	Angoram	2k

bold cities appear on map.

(k = x1000)

Event ID: us6000ldqf https://earthquake.usgs.gov/earthquakes/eventpage/us6000ldqf#pager